

US Army Corps of Engineers

The Nation's Environmental Engineer

Jim Balocki

**Chief, Environmental Community
of Practice**

15 June 2010

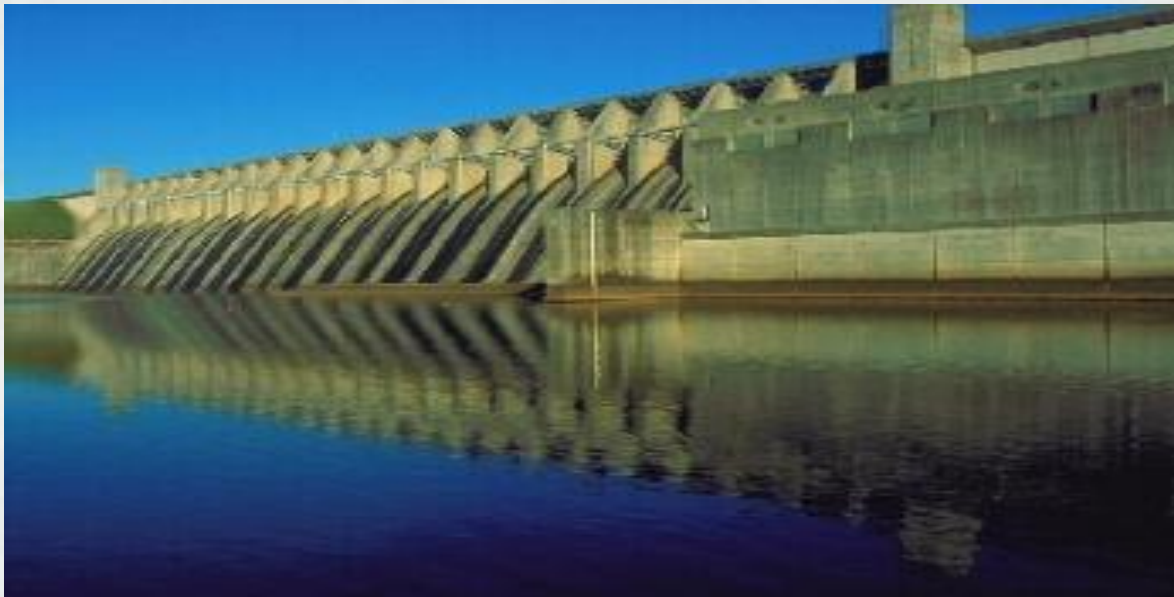
US Army Corps of Engineers
BUILDING STRONG®



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Outline

- Sustainability in USACE
- Implementing Executive Order 13514
- 2010 and Beyond



Corps of Engineers

Environmental Operating Principles

- S Strive for Sustainability
- U Use systems-based approaches
- S Seek and respect stakeholder input
- T Take responsibility for our actions and decisions
- A Act now and always to protect and preserve
- I Integrate and share environmental knowledge
- N Negotiate balance and synergy



Sustainable Facilities and Infrastructure

DEPARTMENT OF THE ARMY
ASSISTANT SECRETARY
INSTALLATIONS AND ENVIRONMENT
101 ARMY PENTAGON
WASHINGTON DC 20315-0110
18 MAR 2002

**Sustainable Project
Rating Tool (SPiRiT)
– GSA award,
ASA(I&E) Policy
2002**

Information on SDO documents and SPiRiT is available on the web at <http://www.hqda.army.mil/acsimweb/doinksSDO.htm> and <http://www.cocer.army.mil/sustdesign>.

Mario P. Fiori
Mario P. Fiori

Project on (Recycled Paper)

DEPARTMENT OF THE ARMY
OFFICE OF THE ASSISTANT SECRETARY OF THE ARMY
INSTALLATIONS AND ENVIRONMENT
101 ARMY PENTAGON
WASHINGTON DC 20315-0110
05 JAN 2006

MEMORANDUM FOR SEE DISTRIBUTION
SUBJECT: Sustainable Design and Development Policy Update – SPiRiT to LEED Transition

1. The purpose of this memorandum is to update the Army Strategy for integrating the principles and practices of sustainability on our installations as we minimize the impacts and total ownership costs of Army systems, material, facilities, and operations. Accordingly, the Army will transition from the Sustainable Project Rating Tool (SPiRiT) to the US Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED®) rating system effective with the FY 08 Military Construction program.

2. All military vertical building construction projects starting with the FY 08 military construction program will achieve the SILVER level of LEED NC (New Construction). This policy includes all new construction projects, regardless of fund source. Horizontal construction, such as runways, roads and airfields, will continue to incorporate Sustainable Design and Development features to the maximum extent possible. The Installation Director of Public Works or the Reserve Component equivalent, supporting Engineer District, designer and constructor

**SPiRiT to LEED
– LEED Silver -
Jan 2006**

Joseph W. Whitaker
Deputy Assistant Secretary of the Army
(Installations and Housing)
OASA(I&E)

ang@us.army.mil, 703-602-5827.



**USGBC Leadership
Award - 2009**

FOR THE ASSISTANT CHIEF OF STAFF FOR INSTALLATION MANAGEMENT:

**Sustainable Mgmt
of Waste in
MILCON -7/2006**

CF:
ACSIM
DACSIM
ASA(I&E)RCI (Mr. D. Spiegelmyer)
DASA(I&H), ASAIE (Ms. A. Valentine)
DASA(ESOH), ASAIE (Mr. R. Murphy)



LEED Validation Study 2009



BUILDING STRONG®

Restoring Properties/Ecosystems

Everglades



Fort Tidball, Alaska



*Nesting Least Terns
Gavins Point Dam
Missouri River*

The Corps restores properties and ecosystems, making both again available to the public for beneficial use.



Recreation, Parks and Dams



BUILDING STRONG®

Green / Sustainable Remediation



Phytoremediation of arsenic at Spring Valley FUDS site, Washington DC



Wind-powered pump and treat at Former Nebraska Ordnance Plant, Mead, NE



(from ITRC "Protocol for Use of Five Passive Samplers to Sample for a Variety of Contaminants in Groundwater", February 2007)

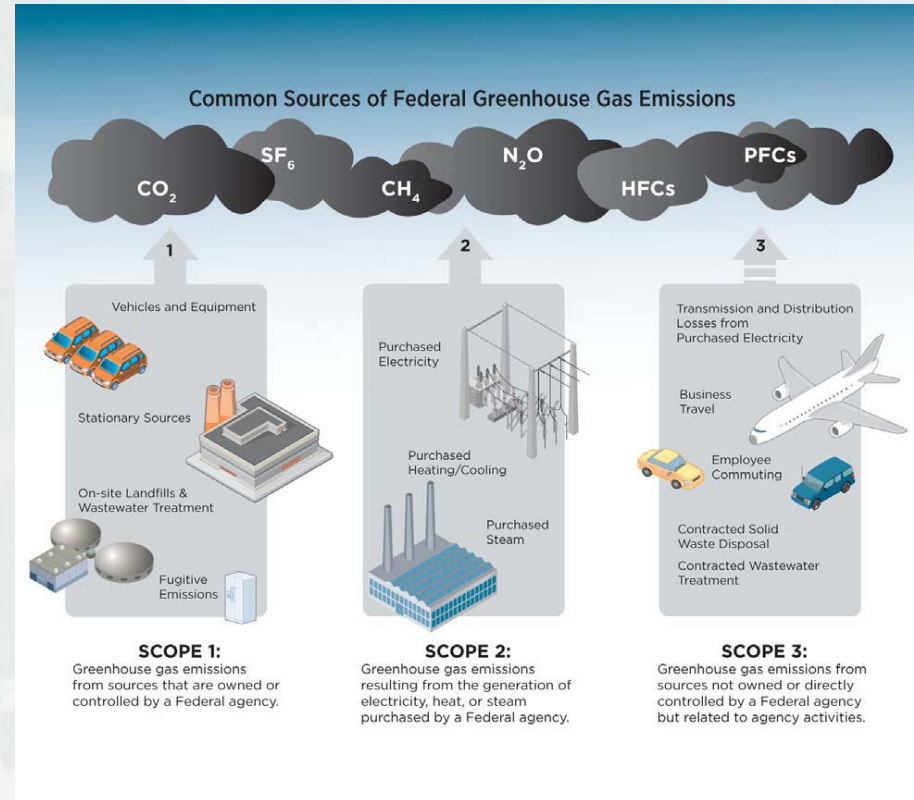


Passive samplers, used across many Corps sites



Implementing EO 13514

- Designated “Agency Senior Sustainability Officer”
- Strategic Sustainability Performance Plan
- Greenhouse gas targets and inventory
- Sustainability Sub-Community of Practice
- Energy



Energy Reductions - Net Zero Energy (NZE) Installation Focus Areas



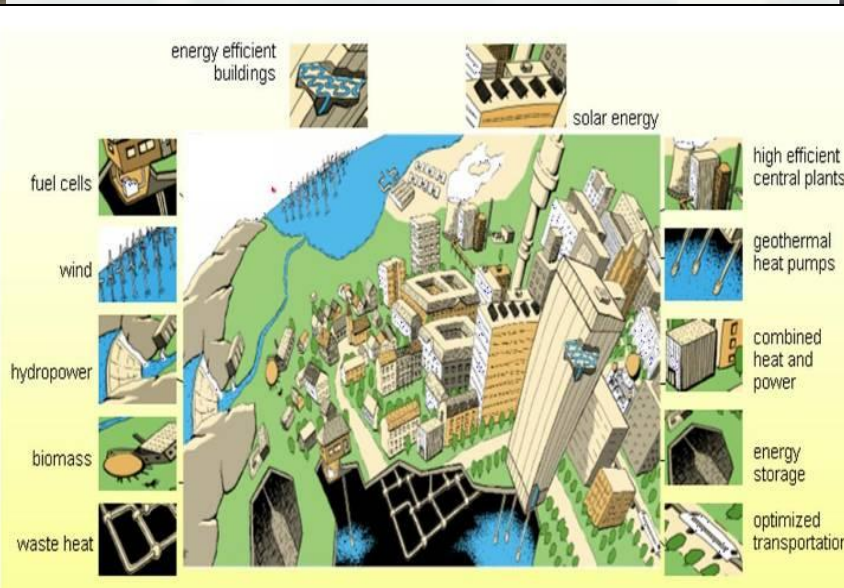
**Energy Conservation
(New & Existing Facilities)**



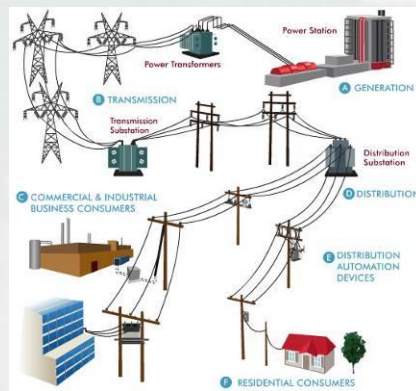
Renewable Power Production



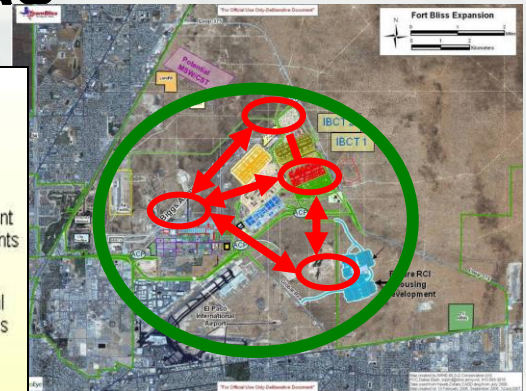
Training / Workshops



Holistic NZE Installation



**Power & Energy
Architecture & Controls**



Modeling & Simulation



Technology Demonstrations



**Operational Issues
Humidity & Mold**



BUILDING STRONG®

2010 and Beyond

- Vendor and contractor GHG emissions
- Hydropower modernization and other renewable energy initiatives
- Vessel fleet fuel efficiency initiatives and other fleet enhancements
- Channel availability improvements at the Nation's busiest ports
- Climate change adaptation pilots / Research and Development

